

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A capacitor comprising:
 - a case including an opening;
 - a lid shaped to cover the opening when attached to the case;
 - a flat capacitor stack including a plurality of flat aluminum metal layers positioned in the case; and
 - a conductor electrically coupled to at least one metal layer of the plurality of flat metal layers with at least a portion of the conductor positioned between the case and the lid.
2. (Previously Presented) The capacitor of claim 1 wherein the conductor comprises aluminum.
3. (Previously Presented) The capacitor of claim 1 wherein the conductor comprises an integral extension of at least one flat metal layer.
4. (Original) The capacitor of claim 1 wherein the case has an upper rim and the conductor is positioned between the upper rim of the case and the lid.
5. (Original) The capacitor of claim 1 wherein the conductor is electrically and mechanically attached to the case.
6. (Cancelled)
7. (Original) The capacitor of claim 1 wherein the case is aluminum.
8. (Original) The capacitor of claim 1 wherein the conductor comprises a strip of aluminum tab stock.

9. (Original) The capacitor of claim 1 wherein the case and the lid form an interface, the conductor positioned in the interface.

10-41. (Cancelled)

42. (Previously Presented) An implantable medical device comprising:
one or more leads for sensing electrical signals of a patient or for applying electrical energy to the patient;
a monitoring circuit for monitoring heart activity of the patient through one or more of the leads; and

a therapy circuit for delivering electrical energy through one or more of the leads to a heart of the patient, wherein the therapy circuit includes one or more capacitors; and

wherein each capacitor comprises a container having a case and a lid, a flat capacitor stack positioned in the case, the flat capacitor stack including a plurality of flat metal layers and a conductor electrically coupled to at least one metal layer of the plurality of flat metal layers and positioned between the case and the lid.

43.(Previously Presented) The implantable medical device of claim 42 wherein the conductor is electrically and mechanically attached to the case.

44. (Original) The implantable medical device of claim 43, wherein the case, the cover, and the conductor are welded to each other using a continuous welding process.

45-48. (Cancelled)

49. (Previously Presented) The capacitor of claim 9 wherein the conductor extends from the capacitive element to the interface.

50. (Currently Amended) A capacitor comprising:

a container having a case and a cover, the case and cover forming an interface;

a flat capacitor stack positioned in the container, the flat capacitor stack including a plurality of aluminum metal layers; and

a conductor electrically coupled to at least one metal layer of the plurality of flat metal layers and with at least a portion of the conductor positioned between the case and the cover in the interface;

wherein the conductor is electrically and mechanically attached to the case and the case and the cover are attached to each other.

51. (Previously Presented) The capacitor of claim 50 wherein the case, the cover, and the conductor are welded to each other.

52. (Previously Presented) The capacitor of claim 50 wherein the case, the cover, and the conductor are welded to each other during an uninterrupted welding process.

53. (Previously Presented) The capacitor of claim 50 wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

54. (Cancelled)

55. (Currently Amended) A method of assembling a capacitor comprising:

providing a conductor connected to at least one aluminum metal layer of a plurality of flat aluminum metal layers; and

positioning the conductor between a first portion and a second portion of a capacitor case;

forming a mechanical and electrical connection between the conductor and the case.

56. (Previously Presented) The method of claim 55 further comprising trimming off a portion of the conductor extending outside of the case.

57. (Previously Presented) The method of claim 55 wherein forming a mechanical and electrical connection further comprises welding the conductor, the first portion, and the second portion to each other.

58. (Previously Presented) The method of claim 57 wherein welding the conductor, the first portion, and the second portion comprises using an uninterrupted welding process.

59. (Previously Presented) The capacitor of claim 1, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

60. (Previously Presented) The capacitor of claim 1, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

61. (Previously Presented) The implantable medical device of claim 42, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

62. (Previously Presented) The implantable medical device of claim 42, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

63. (Previously Presented) The capacitor of claim 50, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

64. (Previously Presented) The method of claim 55, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

65. (Previously Presented) The method of claim 55, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

66. (Currently Amended) A capacitor comprising:

a case including an upper rim defining an opening;
a lid shaped to cover the opening when attached to the case and having an outer edge;
a flat capacitor stack including a plurality of flat aluminum metal layers positioned in the case; and
a conductor electrically coupled to at least one metal layer of the plurality of flat metal layers with at least a portion of the conductor located between the outer edge of the lid and the upper rim of the case.

67. (Previously Presented) The capacitor of claim 66, wherein the conductor comprises aluminum.

68. (Previously Presented) The capacitor of claim 66, wherein the conductor comprises an integral extension of at least one flat metal layer.

69. (Previously Presented) The capacitor of claim 66, wherein the conductor is electrically and mechanically attached to the case.

70. (Previously Presented) The capacitor of claim 66, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

71. (Previously Presented) The capacitor of claim 66, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

72. (Currently Amended) A capacitor comprising:

- a case having a rim;
- a lid shaped to cover the opening when attached to the case and having an outer edge, the outer edge and the rim defining an interface;
- a flat capacitor stack including a plurality of flat aluminum metal layers positioned in the case; and
- a conductor electrically coupled to at least one metal layer of the plurality of flat metal layers, wherein the conductor is positioned within the interface.

73. (Previously Presented) The capacitor of claim 73, wherein the conductor comprises aluminum.

74. (Previously Presented) The capacitor of claim 73, wherein the conductor comprises an integral extension of at least one flat metal layer.

75. (Previously Presented) The capacitor of claim 73, wherein the conductor is electrically and mechanically attached to the case.

76. (Previously Presented) The capacitor of claim 73, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

77. (Previously Presented) The capacitor of claim 73, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.